

Title (en)

Turbocharged combustion engine

Title (de)

Brennkraftmaschine mit Abgasturboaufladung

Title (fr)

Moteur à combustion turbocompressé

Publication

EP 1754870 A3 20090429 (DE)

Application

EP 06014993 A 20060719

Priority

DE 102005039012 A 20050818

Abstract (en)

[origin: EP1754870A2] The internal combustion engine has at least two mutually independently controllable exhaust valves (10,12) per cylinder (2-5), whereby at least one of the exhaust valves is only connected to one turbocharger (14) and the other only to a second turbocharger (15) and the gas outlet (16) of the first turbocharger is connected in the feed to the second turbocharger. At least the first exhaust gas turbocharger has at least one bypass line (20).

IPC 8 full level

F02B 37/013 (2006.01); **F01N 3/08** (2006.01); **F01N 3/20** (2006.01); **F02B 37/007** (2006.01); **F02B 37/18** (2006.01)

CPC (source: EP)

F01N 3/08 (2013.01); **F01N 3/2053** (2013.01); **F02B 37/004** (2013.01); **F02B 37/013** (2013.01); **F02B 37/025** (2013.01); **F02B 37/18** (2013.01); **F01N 13/107** (2013.01); **F01N 2340/04** (2013.01); **F01N 2410/06** (2013.01); **F02B 29/04** (2013.01); **Y02T 10/12** (2013.01)

Citation (search report)

- [XY] JP S61164039 A 19860724 - NISSAN MOTOR
- [Y] DE 10243473 A1 20040325 - PORSCHE AG [DE]
- [DA] WO 2004097195 A1 20041111 - DAIMLER CHRYSLER AG [DE], et al

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WO2009010145A1; CN104040140A; EP3184774A1; CN104040146A; WO2013068640A1; WO2011036083A1; WO2013068639A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1754870 A2 20070221; **EP 1754870 A3 20090429**; **EP 1754870 B1 20130522**; DE 102005039012 A1 20070222

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